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their tents or snow huts, with a musk-ox skin under and a light deer-skin over them. The changes he made in his equipment, his use of sheep-skin clothing, (p. 131), the new type of sledge he evolved, (p. 135), his dog harness made like those of the Eskimo but of different material, (p. 136), the preliminary training of the men for the arduous tramp, (pp. 134-138) and his ingenious and original plan for the employment of pioneer relay parties, a scheme that worked perfectly and was very important in his final success, are absorbing reading and full of helpfulness to all future ice explorers.

The work has a good index, the illustrations are admirable and the publishers have done their part in making the volume a satisfying memorial of one of the great achievements of polar enterprise.

#### GENERAL

**Geographische Forschungsreisen und ihre Ziele.** Von Dr. B. Bruhns. Mit 19 Abbildungen, 55 p. Karia-Verlag Abt.: *Natur u. Kultur*, Munich, 1910.

Dr. Bruhns mentions Shackleton, Hedin, and Peary as illustrating the leading types of explorers. He classes Shackleton's work as scientific and that of Hedin as resulting in much new information, but, being the work of one man, in forced marches over a great area, not so closely studied as to have the highest value. In Peary's work, the expedition to the Pole, he sees a very strenuous effort to reach the goal without great geographical results, as earlier enterprise had practically determined that the Pole is in the midst of the sea area. The exploration of the future, he believes, will consist chiefly of parties made up of experts in the various branches of geographic knowledge, the sum total of whose results will enrich geographical science. He especially mentions Hans Meyer and his studies in vulcanism and glaciology; Shackleton, the Sarasins in their studies of the most primitive human beings, as the Wedda and Sakai, and the Duke of Mecklenburg in his African work, as conspicuously illustrating the type of explorers needed for future field work.

**Geologische Charakterbilder.** Herausgegeben von Dr. H. Stille. 2 Heft. Grosses erratische Blöcke im norddeutschen Flachlande. Von F. Wahnschaffe. Tafeln 1-6. M. 3.60. 3 Heft. Das Karstphänomen. Von A. Grund. Tafeln 1-6. M. 4.80. Verlag von Gebrüder Borntraeger. Berlin, 1910.

This series of Charakterbilder uses reproductions of very carefully selected photographs to illustrate the structure of mountains, typical development of geological formations, the morphology of the earth's crust and other geological phases. Each number is complete in itself and may be purchased separately. The plates in Heft 2 finely represent some of the great erratics that are distributed over Northern Germany. Heft 3 has eight illustrations of typical Karst phenomena in Austria, Bosnia and Herzegovina. Each plate is accompanied by descriptive text and in each number is a short paper on the general topic illustrated.

**O 2º Visconde de Santarem e os seus Atlas Geographicos.** Por Jordao A. De Freitas, Official da Real Bibliotheca d'Ajuda. (Estudo publicado pelo actual Visconde de Santarem.) 182 pp., 1 plate and appendix. Officina Typographica, Lisboa, 1909.

The work contains a biographical sketch of the second Viscount de Santarem,